

Title (en)
VACUUM BOX WITH SKIMMER BLADEE

Title (de)
SAUGKASTEN MIT SKIMMERLEISTE

Title (fr)
CAISSE ASPIRANTE DOTEE DE PALE D'ECUMOIRE

Publication
EP 1343935 B1 20051005 (EN)

Application
EP 01270652 A 20011214

Priority
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Abstract (en)
[origin: WO0248455A1] A process, and an apparatus, for improving sheet properties in a twin fabric paper making machine forming section whereby pressure pulse generation in the stock can be controlled. The pressure pulses are controlled by mounting a vacuum assisted skimmer blade (15) supported by an adjustable resilient support means (18) so that its height can be altered, and so that it can respond to transient changes in the stock layer thickness. The resilient and adjustable support means (18) itself is supported by a vacuum drainage box (10), which serves to capture at least the major proportion of the fluid skimmed of by the skimmer blade (15). This apparatus the position of the skimmer blade (15) to be altered in two ways without stopping the paper making machine. The skimmer blade (15) can be located either so that it is out of contact with the forming fabric (3), or so that it can be in contact with the forming fabric. By adjusting the resilient adjustable mounting, the amount of pressure exerted by the skimmer blade (15) onto the forming fabric surface is controllable, thus controlling the pressure pulses generated by the skimmer blade. The orientation of the skimmer blade can also be controlled, so that rather than the blade surface being substantially parallel to the machine side surface of the forming fabric, it can be angled somewhat with either its leading or its trailing edge pressed into the fabric.

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